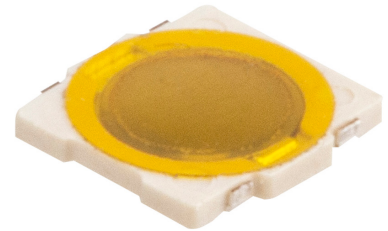


**SERIES:** TS17 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- surface mount
- 0.5 mm actuator height
- 160~260 gf push force options

**SPECIFICATIONS**

| parameter             | conditions/description                                                                   | min  | typ              | max  | units            |
|-----------------------|------------------------------------------------------------------------------------------|------|------------------|------|------------------|
| rated voltage         |                                                                                          | 1    |                  | 12   | Vdc              |
| rated current         |                                                                                          | 0.01 |                  | 50   | mA               |
| withstanding voltage  | for 1 minute                                                                             |      | 250              |      | Vac              |
| contact resistance    | applying load of 2 times operating force at 5 Vdc, 10 mA                                 |      |                  | 100  | mΩ               |
| insulation resistance | at 100 Vdc for 1 minute                                                                  | 100  |                  |      | MΩ               |
| operating force       | see force table                                                                          |      |                  |      |                  |
| actuator travel       |                                                                                          | 0.10 | 0.20             | 0.30 | mm               |
| operating temperature |                                                                                          | -30  |                  | 80   | °C               |
| storage temperature   |                                                                                          | -40  |                  | 90   | °C               |
| life                  | rated load, 2 cycles/second, 1.5 times operating force<br>160 gf models<br>260 gf models |      | 50,000<br>40,000 |      | cycles<br>cycles |
| vibration             | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ                                       |      |                  |      |                  |
| flammability rating   | see material table                                                                       |      |                  |      |                  |
| RoHS                  | yes                                                                                      |      |                  |      |                  |

**PART NUMBER KEY****TS17 - 48 - 05 - YE - XXX - SMT - TR**

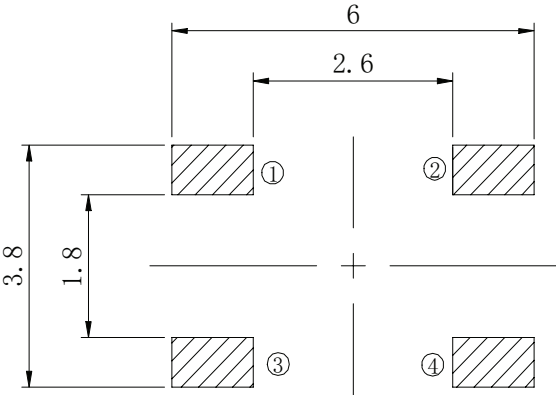
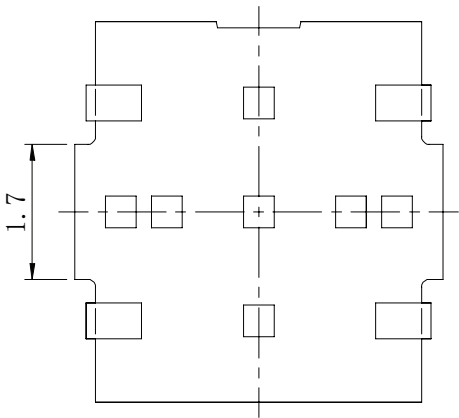
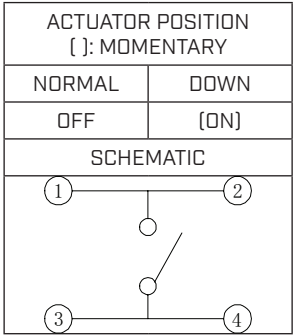
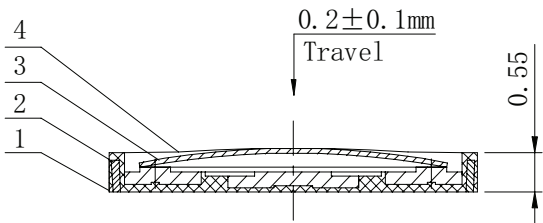
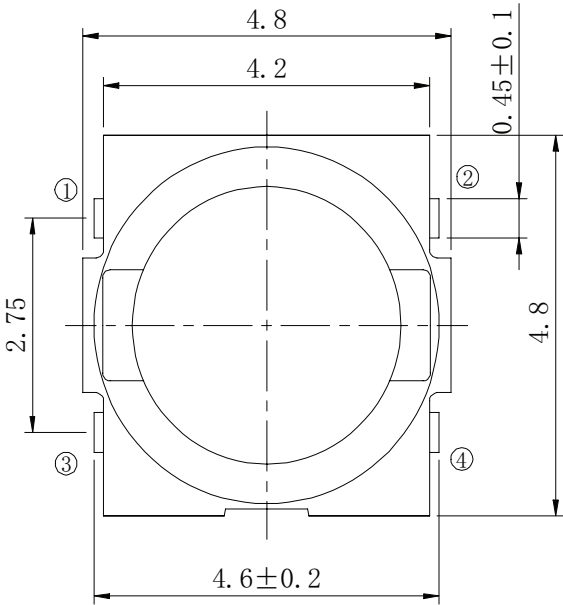
Base Number

Push Force:  
160 = 160 gf  
260 = 260 gf

MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | terminals   | phosphor copper | silver        |
| 2    | housing     | LCP [UL94V-0]   | white         |
| 3    | contacts    | SUS             | silver        |
| 4    | cover       | PI              | yellow        |



Recommended PCB Layout  
Top View

| Operating Force Table |                  |                   |
|-----------------------|------------------|-------------------|
| Model                 | Press Force [gf] | Return Force [gf] |
| 160                   | 160 $\pm$ 50     | >20               |
| 260                   | 260 $\pm$ 50     | >20               |

SOLDERABILITY

| parameter                     | conditions/description | min | typ | max | units |
|-------------------------------|------------------------|-----|-----|-----|-------|
| hand soldering                | for maximum 3 seconds  |     |     | 350 | °C    |
| reflow soldering <sup>1</sup> | see reflow profile     |     |     | 260 | °C    |

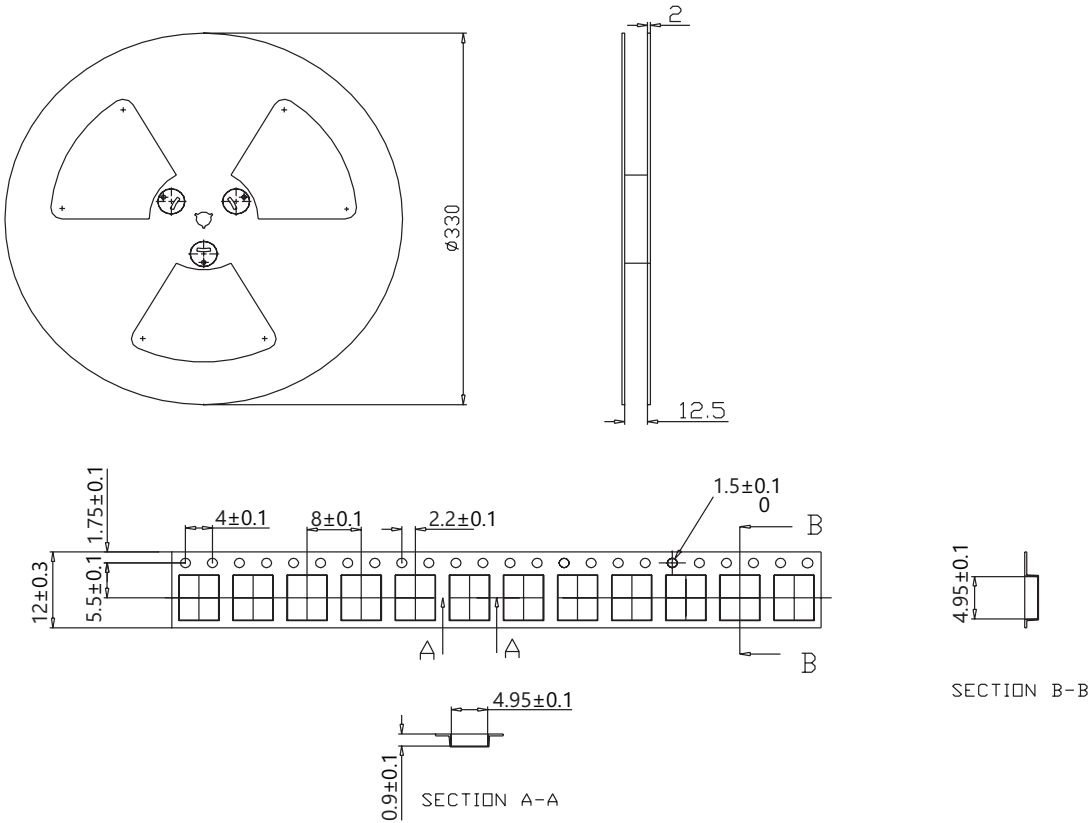
Notes: 1. Do not exceed 2 reflow cycles.



PACKAGING

units: mm

Reel Size: Ø330 mm  
Reel QTY: 5,000 pcs per reel  
Carton Size: 430 x 340 x 340 mm  
Carton QTY: 100,000 pcs per carton



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 05/10/2022 |
| 1.01 | logo, datasheet style update      | 08/05/2022 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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